

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. - 8. cancelled

9. (currently amended): A ~~producing~~ method for continuously producing a disc cable which travels within piping connected endlessly, the cable having a metal wire and discs disposed thereon in a predetermined spacing relation, the method comprising:

a step of forming a cover layer formed of synthetic resin on the surface of ~~a~~ the metal wire, and forming a groove-like part through which the surface of the metal wire is exposed, said groove-like part not forming a part of the cover layer and being distributed in a predetermined spacing relation in a longitudinal direction of ~~a~~ the cable, and

a step of molding a disc formed of synthetic resin, and causing synthetic resin to flow into the groove-like part to form a protrusion ~~on~~ in the substantially central part of the disc to fixedly mount it on the cable.

10. (cancelled):

11. (currently amended): A producing method for a disc cable which travels within piping connected endlessly, the cable having a metal wire and discs disposed thereon in a predetermined spacing relation, the method comprising a step of forming a cover layer formed of synthetic resin on the surface of ~~a~~ the metal wire, and forming a disc formed of synthetic resin integral with the cover layer, wherein in molding the disc, a fitting hole is formed in the disc, and one end of the cover layer is fitted in the fitting hole.

12. (canceled).

13. (currently amended): A method for continuously producing a disc cable which travels within piping connected endlessly, the cable having a metal wire ~~ere~~ and discs disposed thereon in a predetermined spacing relation, each of said discs comprising a ~~radially extending~~

radial part having opposed radial surfaces and a boss part extending from a respective one of said radial surfaces and having an inner layer part and ~~a flange~~ an outer layer part, the method comprising:

a step of molding the inner layer part of the boss part of the disc and the ~~flange part~~ radial part of the disc integrally, and forming a depression in the inner layer part of the boss part of the disc proximate a the radial surface of said ~~radially extending radial part of the disc~~, and

a step of forming the cover layer formed of synthetic resin on the surface of the metal wire, covering one end thereof on the inner layer part of a the boss part of the disc to form ~~an~~ the outer layer part of the boss part of the disc extending to said radial surface, and forming a protrusion corresponding to the depression on one end of the cover layer.

14. (currently amended): The ~~producing~~ method for continuously producing a disc cable as recited in claim 9 wherein said groove like part has a length of 1.0 mm to 5.0 mm.

15. (currently amended): The ~~producing~~ method for continuously producing a disc cable as recited in claim ~~14~~ 9 wherein said groove like part has a length of 1.5 mm to 4.5 mm.

16. (currently amended): The ~~producing~~ method for continuously producing a disc cable as recited in claim 9 wherein said groove like part has a length approximately equal to a diameter of said wire.

17. (currently amended): The ~~producing~~ method for continuously producing a disc cable as recited in claim ~~12~~ 9 wherein said groove-like part has a length substantially smaller than a length of said disc, including said radial part and said boss parts.